



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

POSITIVE RECALL
EFFECTIVE _____ AUTH _____
RELEASED _____ DATE _____

D5805-3

Job Sheet 207481



Part No: D5805-3

Job Qty: 8 pcs

Part Name: Hoop



Part Weight: 0 lbs

Job Created: 2/26/20

Due Date: 3/27/20

Type: Stock

Status: New

Job Tracking No:

Created By: Jennifer Renwick

Description:

Priority: Medium

Note: URF 20-522 DWG D5805 REV.A IPP REV:A NEW ISSUE 20.01.15 JV VERF:DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Large Fab - Welded Assy-1	8 pcs	3/27/20	3/27/20	0.00	4.00	Large Fab - 1		
							Large Fab - 10		
							Large Fab - 2		
							Large Fab - 3		
							Large Fab - 4		
							Large Fab - 5		
							Large Fab - 6		
							Large Fab - 7		
							Large Fab - 8		
							Large Fab - 9		
							Large Fab - 11 (Various)		
							Large Fab - 12		
110	QC 5	8 pcs	3/27/20	3/27/20	0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		
							QC 5 - 61		
							QC 5 - 81		

DAS
24
9-89

John M.

DAS
40
9-89

MAR 10 2020

Plex 3/5/20 8:30 AM Dart.Renwick.Jennifer

3/5/2020

[Dart Hawkesbury] Job Sheet - Renwick, Jennifer

120	Conventional Mill - 1 - B4B	8 pcs	3/27/20	0.25 1.00	Conventional Mill - 1 - B4B	
					Conventional Mill - 2 - B4B	20/3/10
130	QC 2	8 pcs	3/27/20	0.00 0.00	QC 2 - 1	
					QC 2 - 12	
					QC 2 - 14	
					QC 2 - 17	
					QC 2 - 19	
					QC 2 - 2	
					QC 2 - 20	
					QC 2 - 22	
					QC 2 - 23	
					QC 2 - 25	
					QC 2 - 32	
					QC 2 - 33	
					QC 2 - 35	
					QC 2 - 39	
					QC 2 - 4	
					QC 2 - 40	
					QC 2 - 44	
					QC 2 - 45	
					QC 2 - 48	
					QC 2 - 49	
					QC 2 - 50	
					QC 2 - 51	
					QC 2 - 52	
					QC 2 - 57	
					QC 2 - 62	
					QC 2 - 63	20/3/10
					QC 2 - 8	
					QC 2 - 66	
					QC 2 - 64	
					QC 2 - 65	
					QC 2 - 5	
					QC 2 - 71	
					QC 2 - 73	
					QC 2 - 69	
					QC 2 - 76	
140	QC 8	8 pcs	3/27/20	0.00 0.00	QC 8 - 12	
					QC 8 - 14	20/03/10
					QC 8 - 17	
					QC 8 - 20	
					QC 8 - 25	
					QC 8 - 3	
					QC 8 - 32	
					QC 8 - 33	
					QC 8 - 35	
					QC 8 - 39	
					QC 8 - 4	
					QC 8 - 44	
					QC 8 - 45	
					QC 8 - 49	
					QC 8 - 58	
					QC 8 - 8	
					QC 8 - 9	
					QC 8 - 68	
					QC 8 - 67	
					QC 8 - 1 (A)	
					QC 8 - 47	
					QC 8 - 40	

Plex 3/5/20 8:30 AM Dart.Renwick.Jennifer

150 Packaging 3-1 - Stock - B4B 8 pcs	3/27/20	0.00 0.00	QC 8 - 52	
			QC 8 - 23	
			QC 8 - 57	
			QC 8 - 76	
			QC 8 - 61	
			Packaging 3 - 1 - B4B	
			Packaging 3 - 2 - B4B	
			Packaging 3 - 3 - B4B	
			Packaging 3 - 4 - B4B	
			Packaging 3 - 5 - B4B	
			Packaging 3 - 6 - B4B	
			Packaging 3 - 7 - B4B	
			Packaging 3 - 8 - B4B	
			Packaging 3 - 9 - B4B	
			Packaging 3 - 10 - B4B	
			Packaging 3 - 11 - B4B	
			Packaging 3 - 12 - B4B	
			Packaging 3 - 13 - B4B	
			Packaging 3 - 14 - B4B	
			Packaging 3 - 15 - B4B	
			Packaging 3 - 16 - B4B	
			Packaging 3 - 17 - B4B	DAS
			Packaging 3 - 18 - B4B	24
			Packaging 3 - 19 - B4B	9-89
			Packaging 3 - 20 - B4B	
			Packaging 3 - 21 - B4B	
			Packaging 3 - 22 - B4B	
			Packaging 3 - 23 - B4B	
			Packaging 3 - 24 - B4B	
			Packaging 3 - 25 - B4B	
			Packaging 3 - 26 - B4B	
			Packaging 3 - 27 - B4B	
			Packaging 3 - 28 - B4B	
			Packaging 3 - 29 - B4B	
			Packaging 3 - 30 - B4B	
			Packaging 3 - 31 - B4B	
			Packaging 3 - 32 - B4B	
			Packaging 3 - 33 - B4B	
			Packaging 3 - 34 - B4B	
			Packaging 3 - 35 - B4B	
			Packaging 3 - 36 - B4B	
			Packaging 3 - 37 - B4B	
160 QC 21 - SA	8 pcs	3/27/20	0.00 0.00	QC 21 - SA - 21
				QC 21 - SA - 70
				QC 21 - SA - 53

Part Op 100 - 1- Cut material to 34" 2- Bend as per D5805-3 dwg 3- Drill holes with DT10652 as per D5805-3 dwg 4- Remove Descriptions: markings on tube 5- Debur

110 - QC5- Inspect part completeness to step on W/O

120 - 1-Machine slot as per DWG. 2-Debur

130 - QC2- Inspect parts off machine FAI/FAIB

140 - QC8- Inspect parts - second check

150 - Identify as per dwg & Stock Location: _____

160 - QC21- Final Inspection - Work Order Release

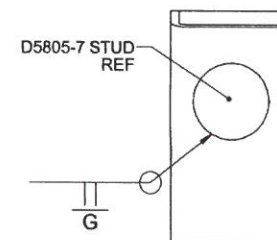
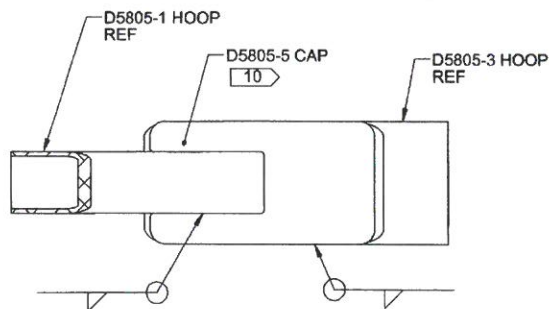
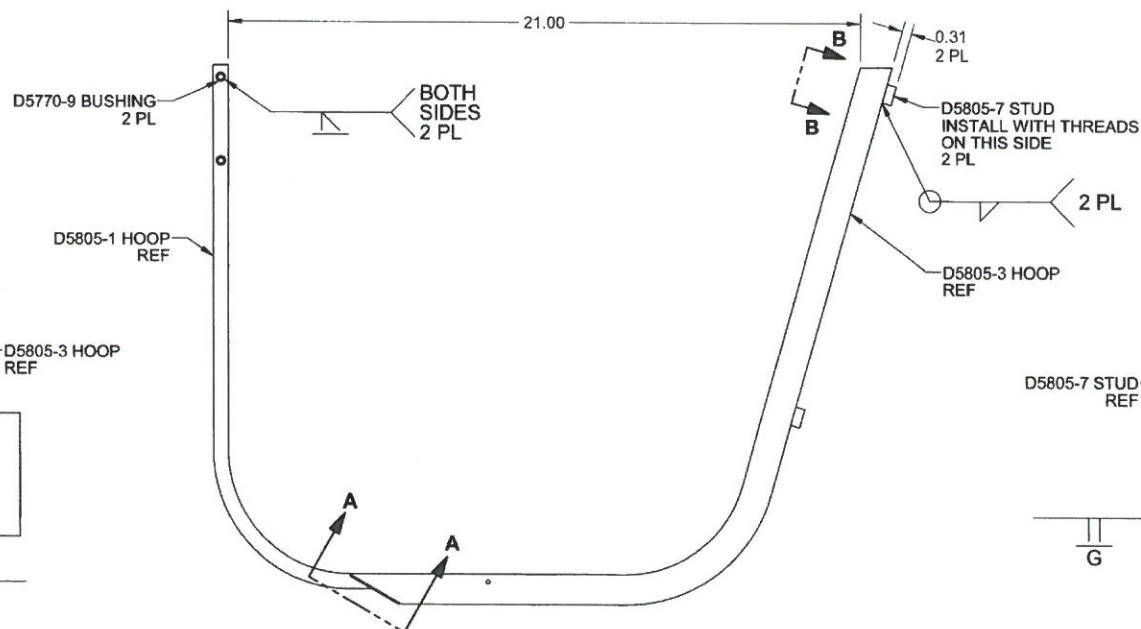
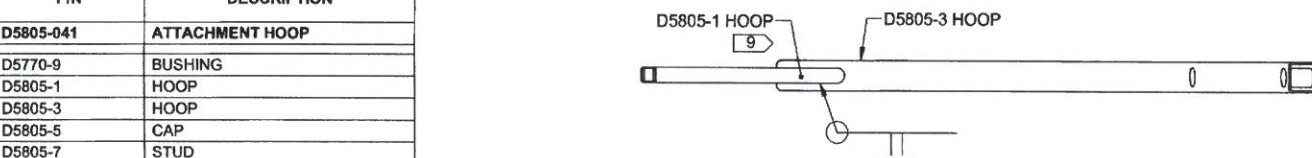
Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M4130NTS1.000W.065 4130 Square Tube 1.000" X 1.000" X 0.065"W		22.7328 ft (2.8416 ea)	100-Large Fab - Welded Assy-1	5250775

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-Large Fab - Welded Assy-1	M4130NTS1.000W.065	23	164	0
Part Specifications				
Specifications could not be found.				

Plex 3/5/20 8:30 AM Dart.Renwick.Jennifer

QTY -041	P/N	DESCRIPTION
X	D5805-041	ATTACHMENT HOOP
2	D5770-9	BUSHING
1	D5805-1	HOOP
1	D5805-3	HOOP
1	D5805-5	CAP
2	D5805-7	STUD



D5805-041 ATTACHMENT HOOP
(DERIVED FROM AERO DESIGN P/N 76423-01)

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 207481

RELEASED
2020 FEB 18 NP
ECN 2020-521

UNDER REVIEW
URF 2020-522 20.02.14 (NO)

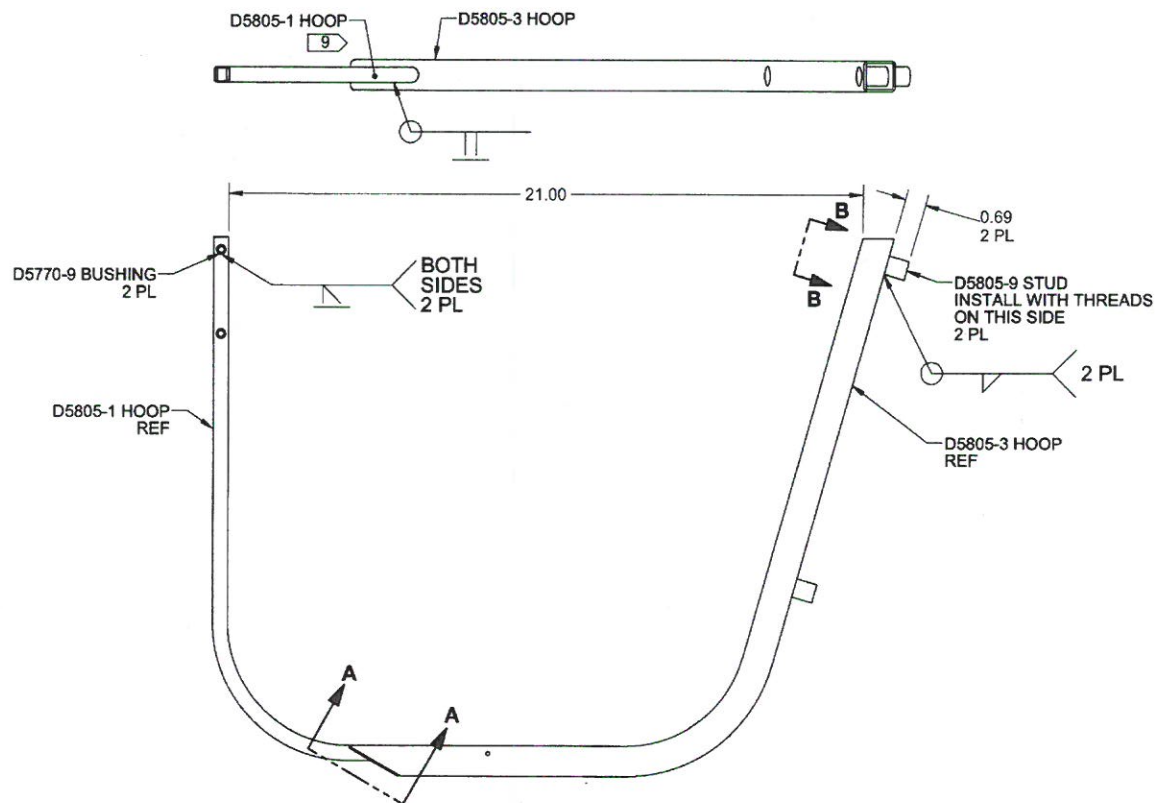
- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010
 - 6) IDENTIFICATION: IDENTIFY PER DART QSI 044
 - 7) WEIGHT: 2.42 lbs
 - 8) WELD PER DART QSI 004. GRIND WELDS FLUSH IF REQUIRED.
 - 9) GRIND END OF D5805-1 HOOP TO FIT SLOT OF D5805-3 HOOP
 - 10) GRIND SLOT OF D5805-5 CAP TO FIT D5805-1 HOOP

REV.	NEW ISSUE	DESCRIPTION	ZF	20.01.13
DESIGN	ZF			
DRAWN	ZF			
CHECKED	KPT			
MFG. APPR.	DD			
APPROVED	NO			
DE APPR.	CP			
DATE	20.01.13			

DESIGN	ZF	DART AEROSPACE LTD	REV. A
DRAWN	ZF	HAWKESBURY, ONTARIO, CANADA	SHEET 1 OF 6
CHECKED	KPT	D5805	SCALE
MFG. APPR.	DD	ATTACHMENT HOOP	NTS
APPROVED	NO		
DE APPR.	CP		
DATE	20.01.13		

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QTY -043	P/N	DESCRIPTION
X	D5805-043	ATTACHMENT HOOP
2	D5770-9	BUSHING
1	D5805-1	HOOP
1	D5805-3	HOOP
1	D5805-5	CAP
2	D5805-9	STUD



D5805-043 ATTACHMENT HOOP
(DERIVED FROM AERO DESIGN P/N 76423-07)

UNDER REVIEW

URF 2020-522 20.02.14 (NO)

NOTES:

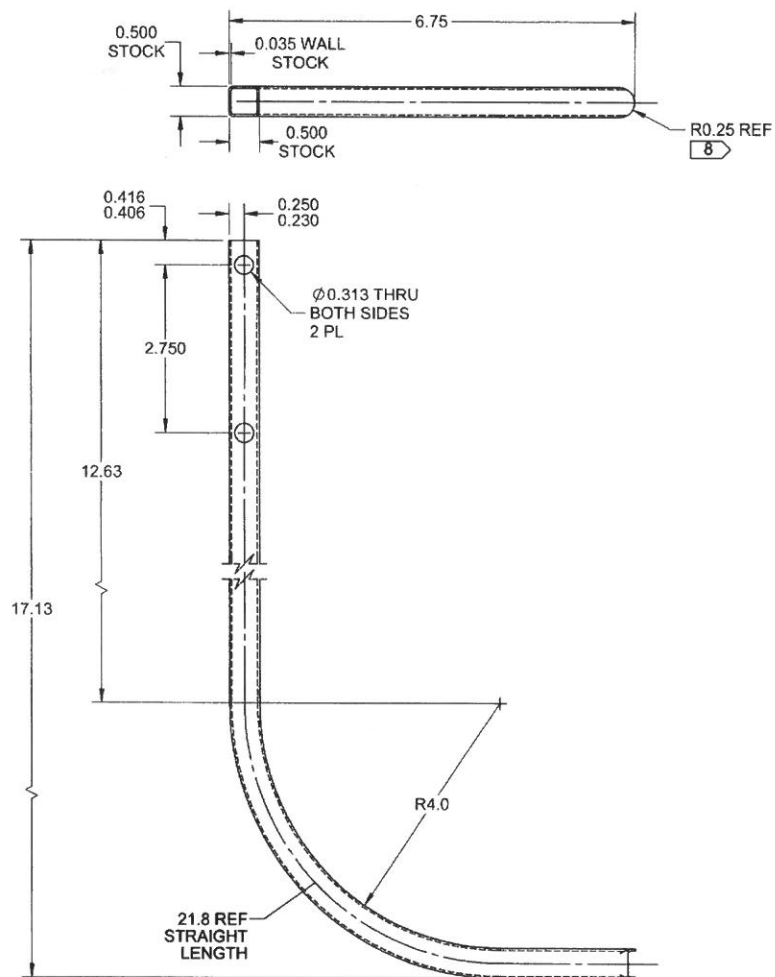
- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010
- 6) IDENTIFICATION: IDENTIFY PER DART QSI 044
- 7) WEIGHT: 2.49 lbs
- 8) WELD PER DART QSI 004. GRIND WELDS FLUSH IF REQUIRED.
- 9) GRIND END OF D5805-1 HOOP TO FIT SLOT OF D5805-3 HOOP
- 10) GRIND SLOT OF D5805-5 CAP TO FIT D5805-1 HOOP

RELEASED

2020 FEB 18 *NO*

APPROVED

DESIGN	ZF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D5805 TITLE ATTACHMENT HOOP COPYRIGHT © 2020 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>
DRAWN	ZF	
CHECKED	KPT	
MFG. APPR.	DD	
APPROVED	NO	
DE APPR.	CP <i>up</i>	REV. A SHEET 2 OF 6 SCALE NTS
DATE	20.01.13	



D5805-1 HOOP

NOTES:

- 1) MATERIAL: AISI 4130N STEEL SQUARE TUBING, 1/2 X 0.035 WALL
PER MIL-T-6736 OR AMS 6371/6360/6361/6362/6373/6374
REF DART SPEC M4130N-TS0.500W.035
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.37 lbs
- 8) GRIND END TO FIT SLOT OF D5805-3 HOOP AT ASSEMBLY

RELEASED
2020 FEB 18 *ND*

APPROVED

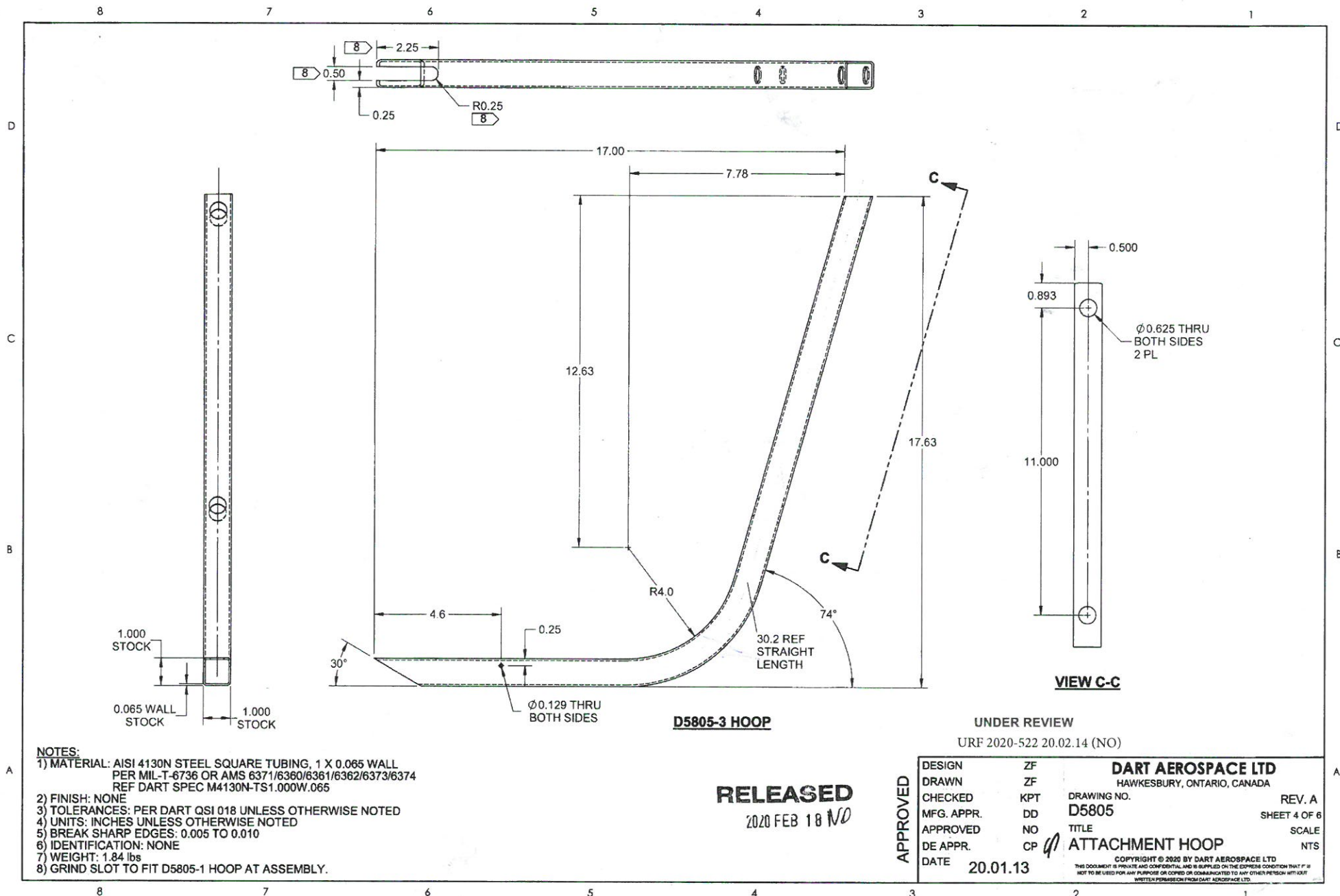
DESIGN ZF
DRAWN ZF
CHECKED KPT
MFG. APPR. DD
APPROVED NO
DE APPR. CP
DATE 20.01.13

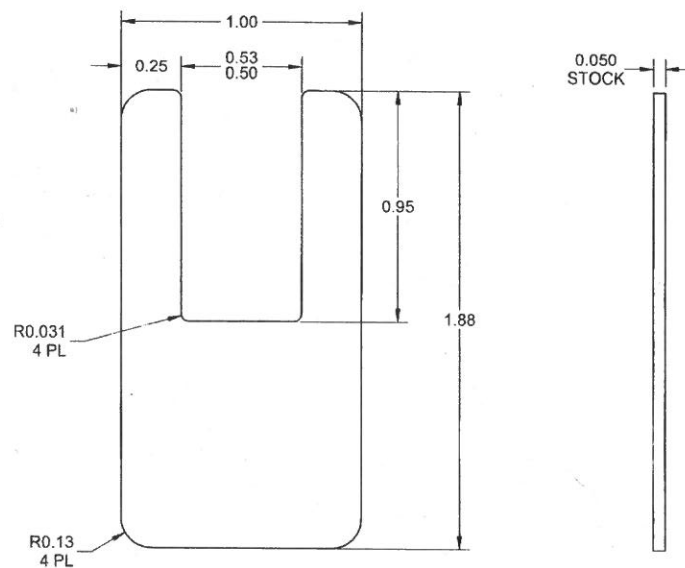
UNDER REVIEW
URF 2020-522 20.02.14 (NO)

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D5805
TITLE ATTACHMENT HOOP
REV. A
SHEET 3 OF 6
SCALE NTS

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D5805-5 CAP
(DERIVED FROM AERO DESIGN P/N 76423-04)

UNDER REVIEW
URF 2020-522 20.02.14 (NO)

NOTES:

- 1) MATERIAL: AISI 1010/1025 STEEL SHEET, COLD ROLLED, #18 GA (0.050 THICK)
PER ASTM A36/A366/A1008 OR CSA G40-21 38W/44W/50W/60W/70W
REF DART SPEC M1010-S18GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.02 lbs

RELEASED

2020 FEB 18 *ND*

APPROVED

DESIGN	ZF
DRAWN	ZF
CHECKED	KPT
MFG. APPR.	DD
APPROVED	NO
DE APPR.	CP
DATE	20.01.13

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

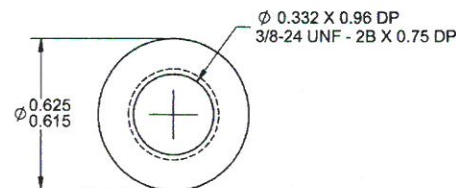
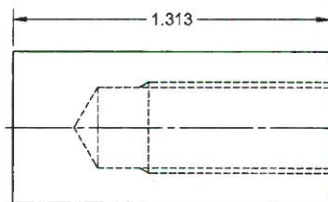
DRAWING NO.
D5805

TITLE
ATTACHMENT HOOP

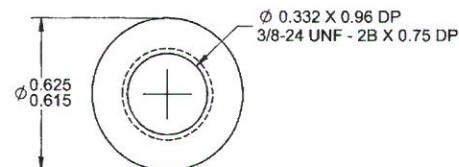
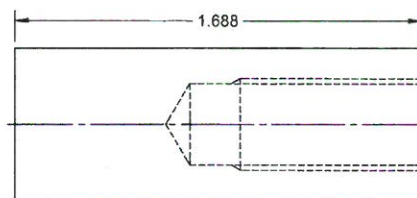
REV. A
SHEET 5 OF 6
SCALE
NTS

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8 7 6 5 4 3 2 1



D5805-7 STUD
(DERIVED FROM AERO DESIGN P/N 76423-05)



D5805-9 STUD
(DERIVED FROM AERO DESIGN P/N 76423-06)

UNDER REVIEW
URF 2020-522 20.02.14 (NO)

NOTES:

- 1) MATERIAL: AISI 1018/1025 STEEL ROUND BAR
PER MIL-S-7097 OR ASTM A108
REF DART SPEC M1018-R
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: -7: 0.09 lbs
-9: 0.12 lbs

RELEASED

2020 FEB 18 NO

APPROVED

DESIGN	ZF	DART AEROSPACE LTD	
DRAWN	ZF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	KPT	DRAWING NO.	REV. A
MFG. APPR.	DD	D5805	SHEET 6 OF 8
APPROVED	NO	TITLE	SCALE
DE APPR.	CP	ATTACHMENT HOOP	NTS
DATE	20.01.13	<small>COPYRIGHT © 2020 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

8 7 6 5 4 3 2 1



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **POHB045594**



Supplier: FAC001-VU
Factory Steel
14020 Oakland Ave.
Detroit, MI 48203 USA
Phone: 313 883 6300
Fax: 313 883 4883

PO No: POHB045594

PO Date: 1/16/20

Due Date: 2/4/20

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
JAN 16 2020

Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M4130NTS0.750W.035			4130 Square Tube 0.750 X 0.035W : MATERIAL: AISI 4130N STEEL SQUARE TUBING PER ONE OF THE FOLLOWING SPEC'S: MIL-T-6736, AMS 6371, 6390, 6361, 6362, 6373 OR 6374	Firmed	-	2/4/20	600 ft	0 ft	600 ft	\$7.25/ft	\$4,350.00
2		M4130NTS1.000W.065			4130 Square Tube 1.000" X 1.000" X 0.065"W : MATERIAL: AISI 4130N STEEL SQUARE TUBING PER ONE OF THE FOLLOWING SPEC'S: MIL-T-6736, AMS 6371, 6390, 6361, 6362, 6373 OR 6374	Firmed	-	2/4/20	160 ft	0 ft	160 ft	\$11.70/ft	\$1,872.00

609 ft
603

171 ft
603

Grand Total: \$6,222.00

PACKING LIST

No. 67371

PG 1 OF 1

PL

FACTORY STEEL & METAL SUPPLY 14020 OAKLAND AVENUE DETROIT, MI 48203		CUSTOMER PO POHB045594		BUYER CHANTEL LAVOIE		SHIP DATE 01/21/2020	
(313)883-6300 PHONE (313)883-4883 FAX		CUSTOMER JOB		Tel (613) 632-3336 Fax (613) 632-4443		SHIP VIA ****TRUCK****	
SOLD TO DART AEROSPACE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7		SALES ORDER 60306		ORDER DATE 01/16/2020		RESALE # 59-2958719	
		SHIP TO DART AEROSPACE 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7		SHIP INST CALL WHEN READY		CARRIER TRUCK	
				PRO#		BLIND Y/N N	
				TERMS NET 30 DAYS		FOB DETROIT	

LINE	QUANTITY	DESCRIPTION	WIDTH	LENGTH	WEIGHT		
1	609.917 FT	4130N CD SMLSS SQ TUBE 3/4" X .035W Tag Mill Ref # Heat 153513 023679 616506	Pcs Length 26 20' /24' RL	20' /24' RL Feet 609.917	207.554 Weight 207.554		
2	171.333 FT	4130N CD SMLSS SQ TUBE 1" X .065W Tag Mill Ref # Heat 153514 072143 072067859	Pcs Length 7 22' /23' RL	22' /23' RL Feet 171.333	141.606 Weight 141.606		
3	1 PCS	PACKING CHARGES MTRS (CIRCLE) FAX SHIPMENT INVOICE ALL DATE: _____ INITIAL: _____					

TOTAL WT
349 LBS

RECEIVED BY - SIGNATURE

RECEIVED BY - PRINTED NAME

DATE RECEIVED

SO

LIME 2
M4130NTS 1.000W.065

5250795
072067859



DESIGN PH	DRAWN BY PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED H	APPROVED H	DRAWING NO. M4130N-TS	REV. A SHEET 1 OF 1
DATE 05.02.09		TITLE 4130N SQUARE TUBING	SCALE NTS
A	05.02.09	NEW ISSUE	

PURCHASE MATERIAL:

AISI4130N STEEL SQUARE TUBING PER ONE OF
THE FOLLOWING SPEC'S: MIL-T-6736, AMS 6371,
6360, 6361, 6362, 6373 OR 6374

PART NUMBER:

M4130N-TS | A.AAA | W | .TTT |

DAS
82
9-89

WHERE A.AAA = WIDTH IN INCHES
TTT = WALL THICKNESS IN INCHES

EXAMPLE: 0.50" X 0.035" WALL = M4130N-TS0.500W.035

RELEASED
05-03-15

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TEST REPORT

2

5753		MICHIGAN SEAMLESS TUBE		SOUTH LYON, MICHIGAN 48178		SHIPMENT 001					
ORDER NUMBER	CUSTOMER ORDER NUMBER	DATE	QFC	COM	DIWI	NET SLS	GR SLS	ACCOUNT NUMBER	US	PAGE	
072143	2962	04/14/16	22	00	16	16	01	02598001PCO	BN 2ME	1	
SOLD TO: FACTORY STEEL & METAL SUPPLY 14020 OAKLAND DETROIT MI USA 48203					SHIP TO: FACTORY STEEL & METAL SUPPLY 14020 OAKLAND AVENUE DETROIT MI 48203					SN TR INV	

ROUTING

OPEN TOP/FULLY TARPED/FOB SOUTH LYON MI

PPD TRUCK

ANALYSIS	SHAPE	PRODUCT	FC	ANNEAL	REQUESTED
4130	SQUARE	COLD DRAWN		STRESS RELIEVED	05/13/16
SEAMLESS	SPECIFICATION	CMST	DESCRIPTION	PROMISE	
	AMS-6371/A519		CD ALLOY AIRCRAFT	05/13/16	

SPECIAL INSTRUCTIONS
OIL (SQUARE) DFAR COMPLIANT. 1-HEAT MAX. MARK & CERT TO A519-96,
MILT-6736BN NOTE-2, AMS-6360M, AMS-6371K, AMS-T-6736AN, 4130H &
AMS-2301K. DECARB LEVELS TO AMS-6371. 80 KSI MIN YLD-AIM 90 KSI.
T/R TO INCL CHEM & PHYS. MAGNETIC PARTICLE TESTING NOT
GUARANTEED. PAINT ENDS-RED. AIM LONGEST LENGTH.

DAS
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9-89

ITEM	QUANTITY	O.D.	I.D.	WALL	LENGTH	WT/FT	WEIGHT	
		1.000		.065 AVG		.8265		09:01:48 05/16/16

ITM	BALE	--BALE--
NUM	NUM	PCS FTG
1	1 2	120 2940
1	2 2	104 2550
1	3 2	16 388

HEAT NO.
072067859
072067859
072067859

LENGTH
RAND 20'-26'
RAND 20'-26'
RAND 20'-26'

ITM PART
STATUS NUMBER
COM
COM
COM

HEAT NO.	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Al	REMARKS
072067859	.310	.480	.012	.017	.230	.200	1.070	.170	.210	.019	EF GERDAU

HEAT NO.	ULT. STRL PSI	YIELD, PSI	% ELONG	HARDNESS	HYDRO TEST PSI	ULTRA SONIC %	EDDY CURRENT	EXPANSION
072067859	113,623	100,318	20.8	HBW 226-248			OK	
072067859	113,199	100,381	22.0	HBW 226-248				
072067859	116,653	101,631	22.5	HBW 226-248	BEND	FLATTEN	FLARE	REV. FLATTEN
072067859	112,167	98,875	22.0	HBW 226-248				FLANGE

DECARB OK GRAIN SIZE 8
FREQ 0.00 SEV 0.00
MACROS: S1 R1 C1
J1 J2 J3 J4 J5 J6 J7 J8 J9 J10
51 51 50 49 47 43 37 36 34 31
MELTED & MANUFACTURED USA

Manager - Quality Assurance

We hereby certify that the reported data are
correct according to Michigan Seamless Tube
tests and those of its suppliers.

8.2.P8.F9 Rev

LINE 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NTS 1.000W.065 PO / BATCH NO.: POMB045594
 DATE: JAN 27 2020 5250795

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 171 PF
 QUANTITY INSPECTED: 171 PF
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000W.065
 THICKNESS RECEIVED: 1.000W.065
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	MIL-T-6736
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	072067859
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: _____	DAS 82	SIGNED OFF BY: _____	
DATE: JAN 27 2020	9-89	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> </div> <div> Eng. (Non-AW) <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Water Jet <input type="checkbox"/> Supplier <input type="checkbox"/> Quality <input type="checkbox"/> </div> </div>			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div>		FAULT CATEGORY <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Crushing <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Mislabeled </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Incomplete/Unclear Instructions <input type="checkbox"/> Drill Holes <input type="checkbox"/> Fit/Function </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain Direction <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set/Set-up </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Outside Tolerance <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Misread </div> </div>			
Other/Details:					